

FEB 23 2005

Serial No. 10/083,774

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANTS: Thomas A. Millott, et al.

SERIAL NO.: 10/083,774

GROUP ART: 2644

FILED: 2/27/02

EXAMINER: Brian T. Pendleton

FOR: COMPUTATIONALLY EFFICIENT MEANS FOR OPTIMAL  
CONTROL WITH CONTROL CONSTRAINTS

ATTORNEY DOCKET NO: 67,008-038/S-5451

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT**

In response to the first Office Action from the Examiner mailed January 6, 2005, please  
amend the application as follows:

Amendments to the claims are reflected in the complete listing of the claims beginning on  
page 2.

Remarks begin on page 11.

**CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8**

I hereby certify that this correspondence is being facsimile transmitted to the United  
States patent and Trademark Office, fax number (703) 872-9306, on February 23, 2005.

  
Lesley Upton

04/14/2005 PZIMMERH 00000004 501482 10083774

01 FC:1202 200.00 DA  
02 FC:1201 400.00 DA

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Serial No. 10/083,774


**REMARKS**

The Examiner has indicated that claims 12-15 are allowed and that claims 4-11, 17-19 and 21-25 would be allowable if amended into independent form. Applicant has incorporated allowable claim 7 into independent claim 1 and has amended allowable claim 8 into independent form. Independent claim 16 has been amended to include the limitations of allowable claim 17. Independent claim 20 has been amended to include the limitations of allowable claim 21. New claim 26 incorporates the limitations of allowable claim 5 into independent form. Applicant has also made minor corrections and clarifications to several claims.

It is believed that this application is in condition for allowance. Please charge Deposit Account No. 50-1482 \$500 for two additional independent claims in excess of three and two additional claims total in excess of twenty. If any additional fees or extensions of time are required, please charge to Deposit Account No. 50-1482.

Respectfully submitted,

**CARLSON, GASKEY & OLDS**



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Dated: February 23, 2005

**PATENT APPLICATION FEE DETERMINATION RECORD**  
Effective October 1, 2001

Application or Docket Number

10083774

**CLAIMS AS FILED - PART I**

	(Column 1)	(Column 2)
TOTAL CLAIMS	25	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	25 minus 20 =	5
INDEPENDENT CLAIMS	4 minus 3 =	1
MULTIPLE DEPENDENT CLAIM PRESENT <input type="checkbox"/>		

\* If the difference in column 1 is less than zero, enter "0" in column 2

**CLAIMS AS AMENDED - PART II**

	(Column 1)		(Column 2)		(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA
	Total	* 89	Minus	** 25	= 4
	Independent	* 6	Minus	*** 4	= 2
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>				

SMALL ENTITY TYPE ☐

OR OTHER THAN SMALL ENTITY

RATE	FEE
BASIC FEE	370.00
X\$ 9=	
X42=	
+140=	
TOTAL	

RATE	FEE
BASIC FEE	740.00
X\$18=	90
X84=	84
+280=	
TOTAL	914

SMALL ENTITY

OR OTHER THAN SMALL ENTITY

RATE	ADDITIONAL FEE
<del>X\$ 9=</del>	<del></del>
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	200
X84=	400
+280=	
TOTAL ADDIT. FEE	

	(Column 1)		(Column 2)		(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA
	Total	*	Minus	**	=
	Independent	*	Minus	***	=
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>				

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

	(Column 1)		(Column 2)		(Column 3)
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA
	Total	*	Minus	**	=
	Independent	*	Minus	***	=
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>				

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."  
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.